



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD

2013 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Tuesday, 9 July

**Time Allowed: 2 h 30 mins
2:00 – 4:30 pm**

PAPER I

(100 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

- 1. This paper contains 12 pages. Please check.**
- 2. There are five questions in this paper.**
- 3. Answer Question one and three others.**
The maximum number of marks for each answer is indicated against each question.
- 4. Answer the questions in the spaces provided.**
- 5. Write your Examination Number**
on top of each page of the question paper.
- 6. In the table provided on this page, tick against the question numbers you have answered.**

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			
Total			



1. Study the 1:50,000 map extract of Mulanje and answer the questions that follow.

- a. (i) Find the six-figure grid reference for the human feature **BH Q126**.

_____ (2 marks)

- (ii) What geographical feature is found in grid square **7148**?

_____ (1 mark)

- b. (i) What is the general direction of the flow of Nambiti River?

_____ (2 marks)

- (ii) Using evidence from the map, explain any **two** economic activities carried out in the area.

_____ (4 marks)

- (iii) Identify any **one** drainage pattern displayed by Likulezi River.

_____ (1 mark)

- c. (i) Measure the distance of the **S 147** road on the map. Give your answer to the nearest kilometre.

_____ (3 marks)

Continued/...

1. c. (Continued)

- (ii) Find the approximate area south of S 147 road.

(4 marks)

- (iii) What is the direction of Chanasa (7348) from Makhanyera (7550)?

(2 marks)

- (iv) Give the
- highest**
- point on the map.

(1 mark)

- d. (i) Describe the general relief of the map north of Northing 50.

(4 marks)

- (ii) Is Nalijeri (7447) visible from Nolo (7245)? Give
- one**
- reason.

(2 marks)

- e. Draw a cross-section along northing 45 between easting 70 and 78 on the graph paper provided. On the cross-section, indicate S 147 road and Thuchila River. (Take 1 cm to represent 50ft for the vertical scale)

(8 marks)

Continued/...

2. a. (i) What is an "earthquake"?

(2 marks)

- (ii) Explain any **one** factor that is responsible for the occurrence of earthquakes at the plate boundaries.

(2 marks)

- b. **Figure 1** shows a coastal feature. Use it to answer **Questions 2b(i) and (ii)**.

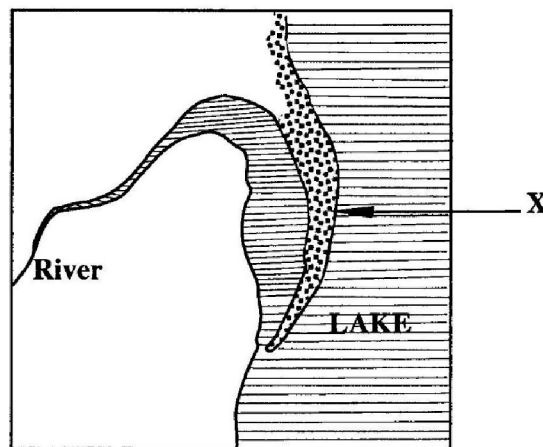


Figure 1

Ref: General Geography in Diagrams by R B Bunnett

- (i) Give the name of the coastal feature marked X.

(1 mark)

- (ii) Explain briefly how the coastal feature was formed.

(3 marks)

Continued/...

2. (Continued)

- c. (i) Mention any
- two**
- examples of metamorphic rocks.

(2 marks)

- (ii) How do the following conditions change rock's character and appearance to become metamorphic rock?

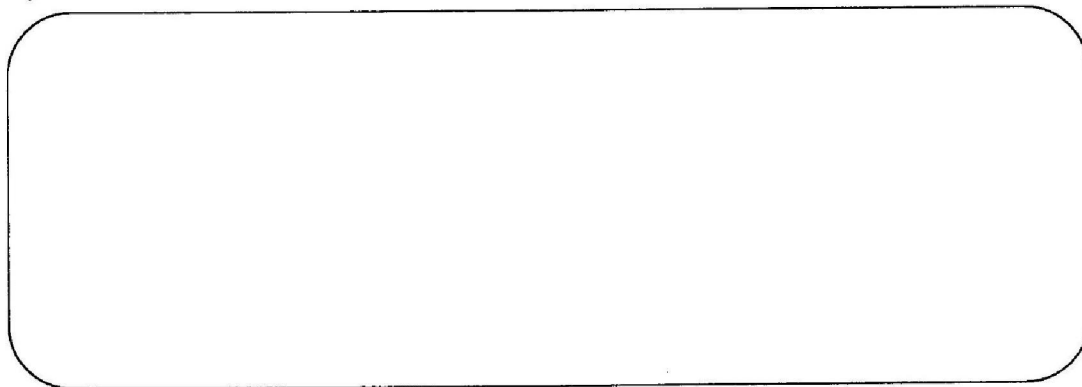
- (1) heat

(2 marks)

- (2) water

(2 marks)

- d. With the aid of a well-labelled diagram, explain the formation of block mountains by tensional force.



(4 marks)

Explanation:

(4 marks)
Continued/...

3. a. What are "ocean currents"?

(2 marks)

- b. **Figure 2** shows major ocean currents of the world. Use it to answer **Questions 3b(i) and (ii)**.

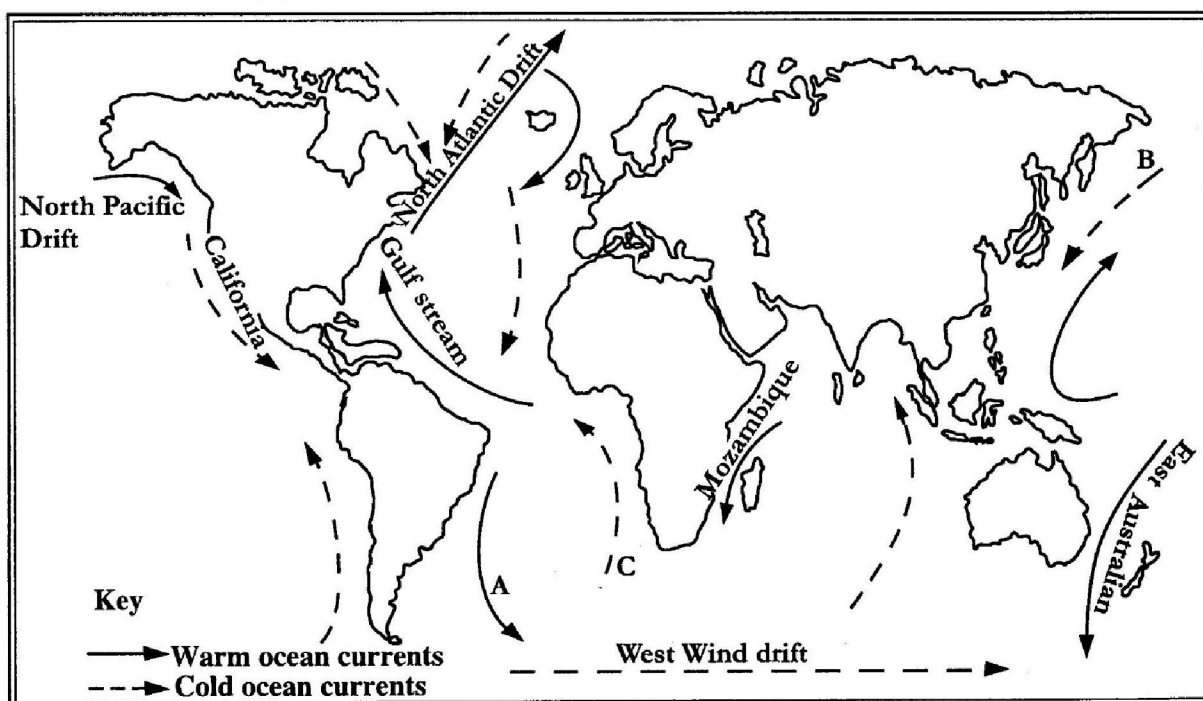


Figure 2

- (i) Name ocean currents labelled **A** and **B**.

A: _____

B: _____

(2 marks)

- (ii) Explain **one** effect of ocean current **C** on the south western part of Africa.

(2 marks)

Continued/...

3. b. (Continued)

(iii) Give any **two** characteristics of warm ocean currents.

(2 marks)

c. (i) Explain how the following factors can disturb the hydrological cycle:

(1) global warming

(2 marks)

(2) deforestation

(2 marks)

(3) acid rain

(2 marks)

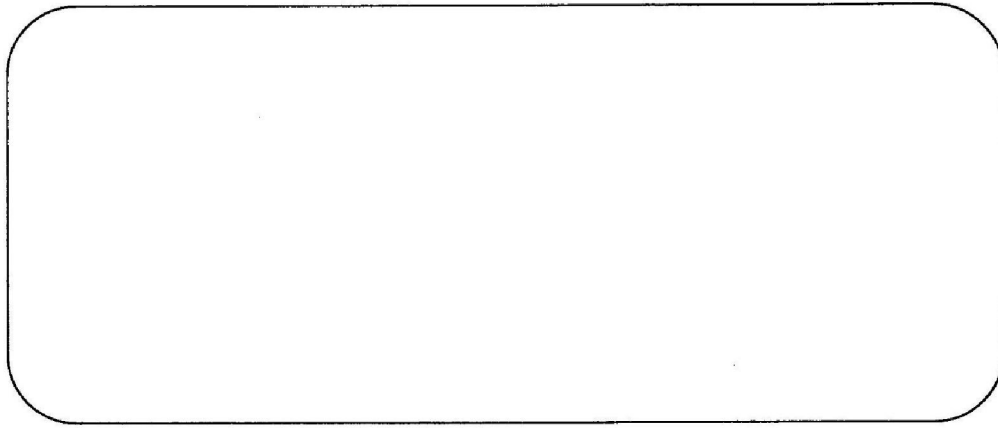
(ii) Describe any **one** effect that the melting ice at the poles would have on earth.

(2 marks)

Continued/..

3. (Continued)

- d. With the aid of a well labelled diagram, explain how sea breeze occurs.



(4 marks)

Explanation:

(2 marks)

4. a. (i) Define “water pollution”.

(1 mark)

- (ii) Explain any **one** effect of water pollution on fishing industry.

(2 marks)

- b. (i) Explain how the removal of vegetation influences air **pollution in an area**.

(2 marks)

Continued/..

4. b. (Continued)

- (ii) Explain **one** possible effect of air pollution that may occur as a result of the removal of vegetation.

(2 marks)

- c. (i) Describe the weather associated with vortex.

(3 marks)

- (ii) Describe **one** negative effect of tropical cyclones.

(2 marks)

- (iii) What name is given to a cyclone that occurs in each of the following regions?

- (1) the Caribbean and USA

(1 mark)

- (2) Australia

(1 mark)

- (iv) Describe the major effect of Chinook winds on the Eastern Rockies.

(2 marks)

- (v) Give any **two** examples of local winds apart from Chinook.

(2 marks)

Continued/...

4. (Continued)

- d. (i) Briefly describe how deltas are formed.

- (ii) State any
- two**
- negative effects of deltas. (2 marks)

(2 marks)

5. a. The
- table below**
- shows temperature and rainfall readings for
- Station A**
- .
-
- Use it to answer
- Question 5a**
- .

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp °C	22	21	21	19	16	14	15	16	20	22	23	22
Rainfall (mm)	205	220	154	36	8	0	0	4	5	9	85	131

F R Phiri (2006): Senior Certificate Physical and Human Geography

- (i) Identify the type of climate represented by the table.

(1 mark)

- (ii) (1) In which hemisphere is the station found?

(1 mark)

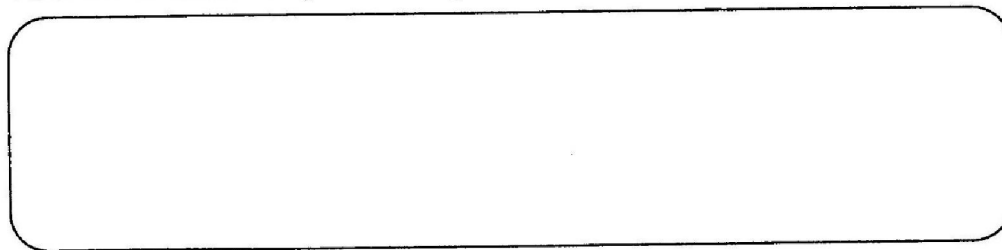
- (2) Give
- one**
- reason for your answer in 5a. (ii)(1).

(2 marks)

Continued/...

5. a. (Continued)

- (iii) Calculate the annual temperature range for Station A.



(2 marks)

- (iv) Find the annual rainfall for the station: (Show your working).

(3 marks)

- (v) Give any
- three**
- factors that may retard agricultural development in this climate.

(3 marks)

- b. (i) Define "air pressure".

(2 marks)

- (ii) Explain how the following affect air pressure:

- (1) rotation of the earth

(2 marks)

- (2) altitude

(2 marks)

Continued/...

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5. b. (Continued)

(iii) Explain the occurrence of:

(1) high air pressure at the poles

(2 marks)

(2) low air pressure at the equator

(2 marks)

END OF QUESTION PAPER

NB: This paper contains 12 pages.